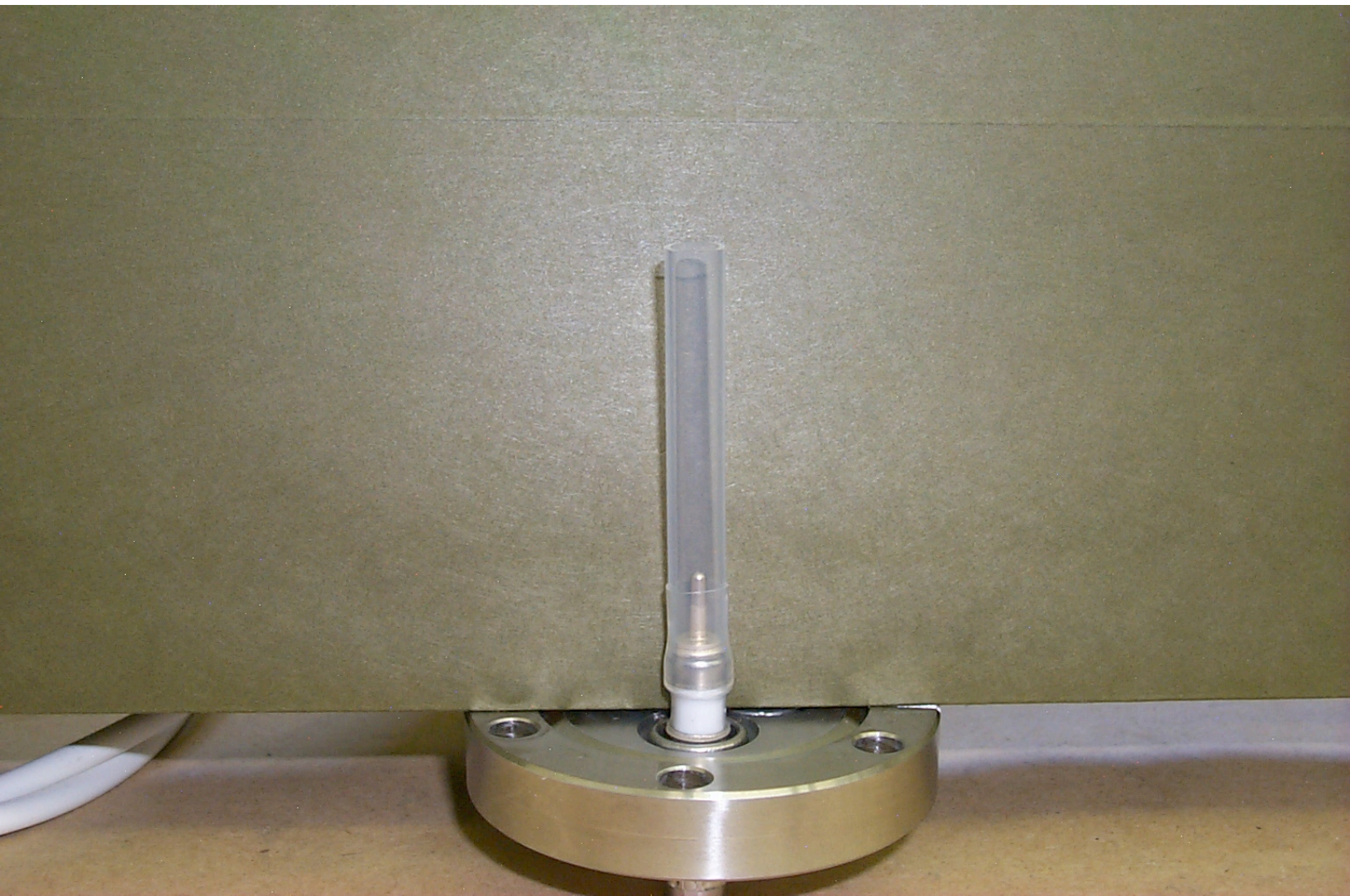


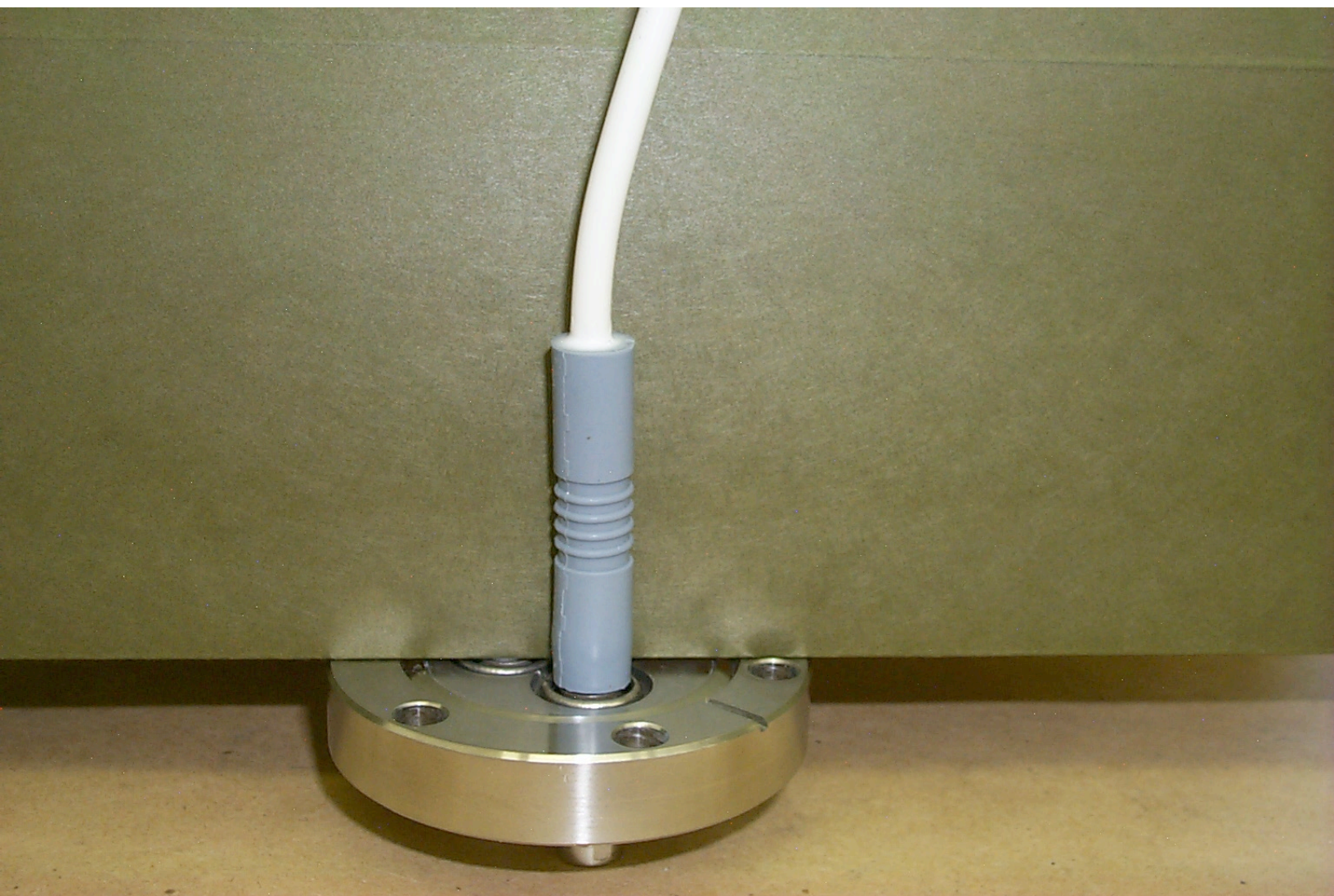
High voltage breakdown test for CeramTec 14366-05-CF vacuum flange with SHV feed throughs using various insulation techniques.  
19 January 2010 w fj



Shielded HV connector, 2.5" x 0.3125" O.D. X 0.03125" wall TFE tubing with TFE shrink tubing for seal.

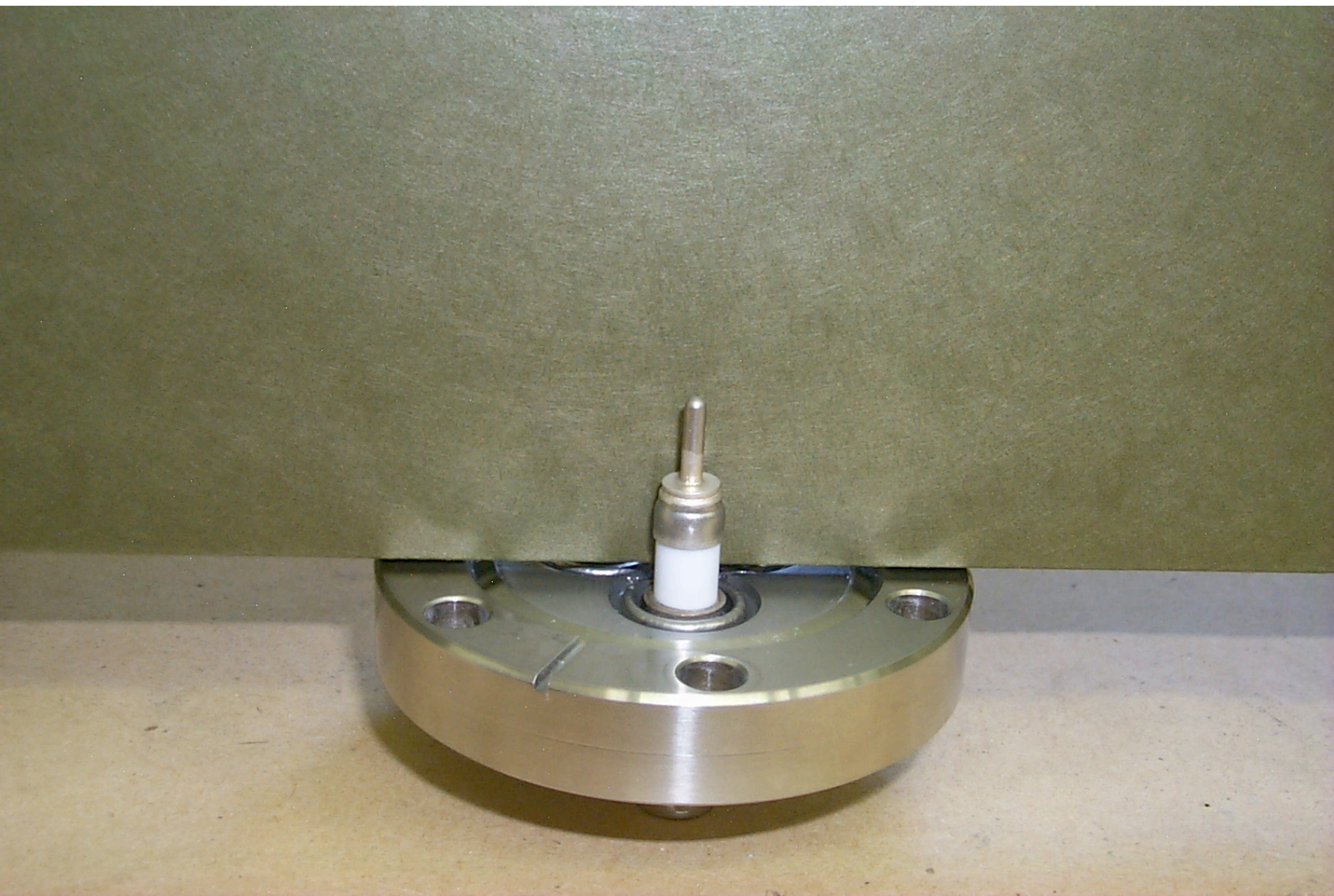
Breakdown voltage in Argon at 1 atmosphere = 4.0 kV, 4.5 kV, 4.5 kV DC  
(three SHV feedthroughs were insulated and tested)





Silicon Rubber HV boot for vacuum use.  
Breakdown voltage in Argon at 1 atmosphere = 5.8 kV DC





Naked vacuum HV connector.  
Breakdown voltage in Argon at 1 atmosphere = 4.0 kV DC